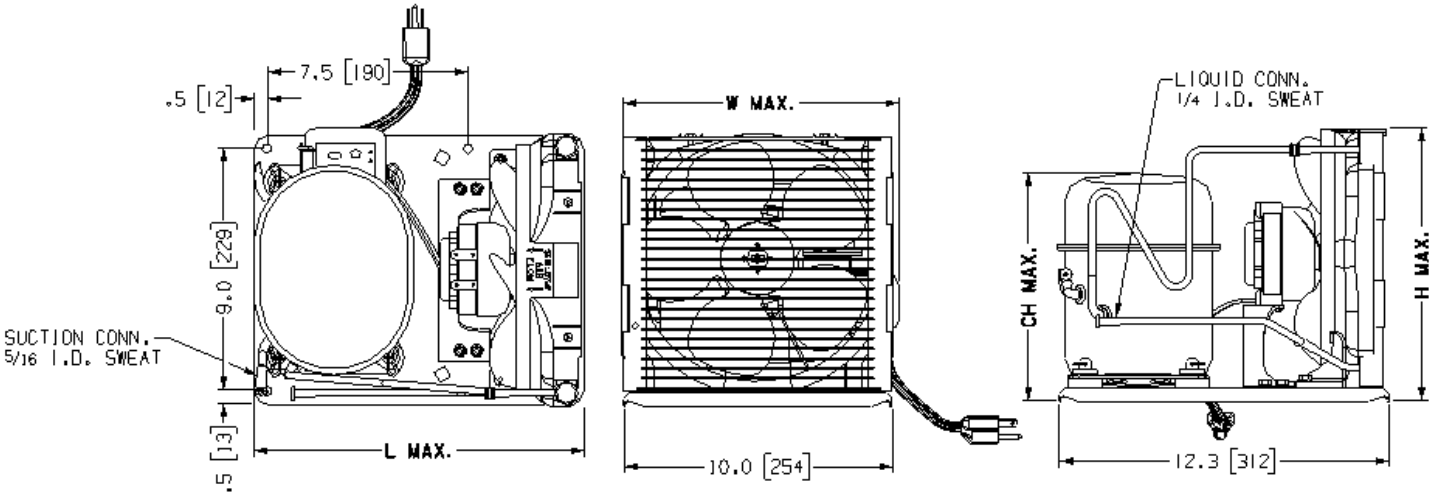
August 22, 2000

Tecumseh Hermetic Condensing Units

Model: **AEA9424YXAPA** **R-134a** **1/3 HP** **Air Cooled**



Note: Dimensioning = Inches [mm]

Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AEA9424YXAPA	12.6	10.2	10.1	8.5	5/16" S	¼" S	-	180	10	TBD

* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting

Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

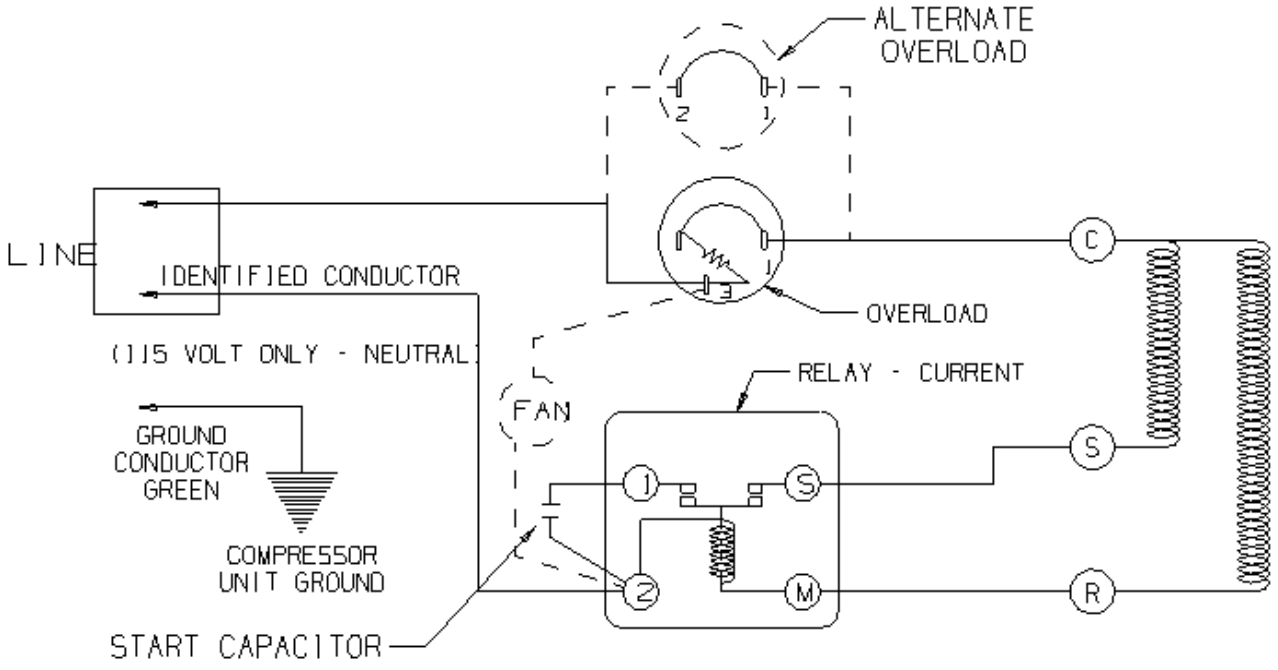
60 Hz Performance

		Ambient Temps															
Evaporator		80°F				90°F				100°F				110°F			
T, °F	PSIG	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T
-10	1.9	1362	396	105	89	1191	393	128	101	1028	395	149	111	989	420	175	121
-5	4.1	1532	415	109	92	1362	415	131	102	1217	416	152	112	1134	437	179	123
0	6.5	1729	437	113	94	1555	439	134	105	1422	440	155	114	1296	458	184	124
5	9.1	1951	462	118	97	1772	467	139	107	1641	467	160	116	1475	482	189	126
10	11.9	2200	489	124	100	2011	496	144	109	1875	498	166	118	1670	511	196	128
15	15.0	2475	519	130	103	2273	529	150	112	2124	531	172	120	1882	542	202	131
20	18.4	2777	552	137	106	2558	564	157	115	2388	568	180	123	2111	578	210	133
25	22.1	3105	588	145	109	2866	601	165	118	2667	607	188	126	2357	618	218	136
30	26.1	3459	626	154	112	3197	641	174	121	2962	650	198	129	2619	661	227	138
35	30.4	3840	667	163	116	3551	684	183	124	3271	696	208	133	2898	708	236	141
40	35.0	4246	711	173	119	3927	729	193	128	3595	745	220	136	3194	758	246	144
45	40.0	4679	757	183	123	4327	777	204	131	3934	797	232	140	3506	813	257	147
50	45.4	5139	806	195	127	4749	827	216	135	4288	851	246	145	3835	871	268	151
55	51.2	5625	858	207	131	5194	880	228	139	4658	910	260	149	4181	933	280	154

Based on 65°F return gas (for all condensing temps), 5°F subcooling.

Specifications: **AEA9424YXAPA** **R-134a** **1/3 HP** **Air Cooled**

Model	AEA9424YXAPA
Nominal Volts-Hz-Ph	115-60-1
Unit Bill of Material	2E331-2, 2E345-1
Voltage Range	103.5 - 126.5
Min. Circuit Ampacity	10.7
Max. Fuse Size (amps)	15
Compressor Model	AEA9424YXA
Comp. Bill of Material	AE610AT-724-P2
Alt. Comp. Bill of Mat.	n/a
Compressor RLA/LRA	8.1 / 45.0
Overload	8300MRTE81
Relay	8200EMBJ75
Alternate Relay	820RR12J53
Start Capacitor	85PS110C92
Start Capacitor Rating	270-324 µfd @ 110 V
Fan Motor	810M009B48
Alternate Fan Motor	810G009B24
Fan Blade	51567
Condenser	50866
Condenser Shroud	71092
Unit Drawing	SU 1924
Electrical Drawing	DEAE-2



115 OR 230 VOLT - SCHEMATIC WIRING DIAGRAM - CSIR
REF. DWG. MD-472-1